



COMMONWEALTH of VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010550
CERTIFICATION DATE: March 12, 2014
DATE RECERTIFICATION DUE: September 8, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

0.020 ± 0.004 g/210 L 0.150 ± 0.007 g/210 L
0.080 ± 0.004 g/210 L 0.250 ± 0.007 g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of k=3. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

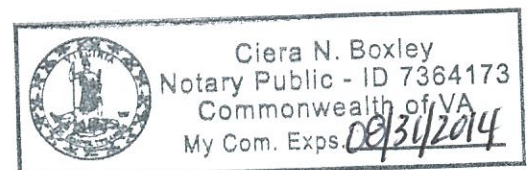
Michelle M. Billeter
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 12th day of
March, 2014 by Michelle M. Billeter

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014



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**Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 3/12/2014**

Instrument Serial Number: 010550 **As of 12-Mar-14**

Maintenance Date	Certification Date	Technician Initials	Remarks
12-Mar-14	12-Mar-14	MMB (26417)	CERTIFIED.
28-Jan-14	28-Jan-14	HMS (18910)	MOVED INSTRUMENT TO NEW LOCATION WITHIN SAME FACILITY, CERTIFIED
25-Oct-13	19-Sep-13	HMS (18910)	REPLACED PRINTER.
19-Sep-13	19-Sep-13	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
04-Apr-13	04-Apr-13	HMS (18910)	REPLACED UPS BACK-UP BATTERY, CERTIFIED
18-Oct-12	18-Oct-12	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
02-May-12	02-May-12	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD, REPLACED PRINTER.
15-Nov-11	15-Nov-11	DBH (21250)	CERTIFIED
06-Jun-11	06-Jun-11	HMS (18910)	CERTIFIED
30-Dec-10	30-Dec-10	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
12-Jul-10	12-Jul-10	HMS (18910)	CALIBRATED AND CERTIFIED.
27-Jan-10	27-Jan-10	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
17-Aug-09	17-Aug-09	HMS (18910)	CALIBRATED AND CERTIFIED.
24-Mar-09	24-Mar-09	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
13-Nov-08	13-Nov-08	NMJ (22392)	CERTIFIED.
13-Oct-08	13-Oct-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

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INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010550 Worksheet Start Date 3/12/2014
Location DFS
Address
DFS Technician Michelle Billeter License No. 26417
☒ Laboratory ☐ On-Site

Site Specification: No detrimental environmental conditions exist. ☐

Instrument Barometer (mm HG) 740 Reference Barometer (mm HG) 744
Reference Barometer(RB)Serial # 009110 RB Calibration Due 5/30/2014

Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.294
0.300	0.292	0.283	0.300	Sample 2	0.294
Precision		sample min	sample max	Sample 3	0.292
0.002		0.292	0.294		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.096
0.100	0.097	0.094	0.100	Sample 2	0.096
Precision		sample min	sample max	Sample 3	0.096
0		0.096	0.096		

Dry gas standard Lot No. (with tank no.) AG209402-49

☐ Replaced dry gas standard (+O-ring)

☐ Installed at Location

☐ Removed to DFS-Central

Supplies
Mouthpieces
Certificates of Analysis
Operator Worksheet
Other:



Notes:

Instrument Serial Number

010550

Certification Date

3/12/2014

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.244
0.250	0.243	0.235	0.250	Sample 2	0.244
Precision		sample min	sample max	Sample 3	0.243
0.001		0.243	0.244		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.145
0.150	0.146	0.141	0.150	Sample 2	0.145
Precision		sample min	sample max	Sample 3	0.145
0		0.145	0.145		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.078
0.080	0.078	0.075	0.081	Sample 2	0.078
Precision		sample min	sample max	Sample 3	0.078
0		0.078	0.078		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.018
0.020	0.019	0.016	0.022	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.018
0.001		0.018	0.019		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician

Michelle Buller

Date

3/12/14

Issuing Analyst

Michelle Buller
gsk

Date

3/12/14

MMB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010550 Test Number: 510
Test Date: 03/12/2014 Test Time: 10:53 EDT

Technician Initials: MMB

Dry Gas Target: 0.243

Lot Number: 0651225015-02 Exp Date: 04/01/2014

Tank Pressure: 281 psi Barometric Pressure: 740 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:53
BLK	0.000	10:54
CHK	0.244	10:55
BLK	0.000	10:57
CHK	0.244	10:57
BLK	0.000	10:59
CHK	0.243	11:00
BLK	0.000	11:02

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

Intox EC/IR-II: Certification*Department of Forensic Science*

Serial Number: 010550 Test Number: 511

Test Date: 03/12/2014 Test Time: 11:03 EDT

Technician Initials: MMB

Dry Gas Target: 0.146

Lot Number: 0651215014-04 Exp Date: 04/01/2014

Tank Pressure: 639 psi Barometric Pressure: 740 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:04
BLK	0.000	11:04
CHK	0.145	11:05
BLK	0.000	11:07
CHK	0.145	11:08
BLK	0.000	11:09
CHK	0.145	11:10
BLK	0.000	11:12

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

MMB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010550 Test Number: 512

Test Date: 03/12/2014 Test Time: 11:13 EDT

Technician Initials: MMB

Dry Gas Target: 0.078

Lot Number: 0651208012-01 Exp Date: 04/01/2014

Tank Pressure: 830 psi Barometric Pressure: 740 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:14
BLK	0.000	11:14
CHK	0.078	11:15
BLK	0.000	11:17
CHK	0.078	11:17
BLK	0.000	11:19
CHK	0.078	11:20
BLK	0.000	11:21

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

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Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010550 Test Number: 513

Test Date: 03/12/2014 Test Time: 11:22 EDT

Technician Initials: MMB

Dry Gas Target: 0.019

Lot Number: 0651202011-04 Exp Date: 04/01/2014

Tank Pressure: 997 psi Barometric Pressure: 739 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:23
BLK	0.000	11:23
CHK	0.018	11:24
BLK	0.000	11:25
CHK	0.019	11:26
BLK	0.000	11:27
CHK	0.018	11:28
BLK	0.000	11:29

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

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Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010550 Test Number: 514

Test Date: 03/12/2014 Test Time: 11:34 EDT

Dry Gas Target: 0.292

Lot Number: AG321804-04 Exp Date: 08/06/2015

Tank Pressure: 218 psi Barometric Pressure: 739 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:34
CHK	0.294	11:35
BLK	0.000	11:37
CHK	0.294	11:38
BLK	0.000	11:40
CHK	0.292	11:41

Test Status: *Success*

Calibration CRC: 95BC3BE2

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Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010550 Test Number: 515

Test Date: 03/12/2014 Test Time: 11:44 EDT

Dry Gas Target: 0.097

Lot Number: AG209402-49 Exp Date: 04/03/2014

Tank Pressure: 174 psi Barometric Pressure: 739 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:45
CHK	0.096	11:46
BLK	0.000	11:47
CHK	0.096	11:48
BLK	0.000	11:50
CHK	0.096	11:51

Test Status: *Success*

Calibration CRC: 95BC3BE2

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INSTRUMENT, TEST,

DFS

BILLETER, MICHELLE, M

DFS Central Lab

26417

10/01/2014

03/12/2014

010550

03/12/2014

12:00 EDT

0.00



IntoxNet MIS Report

Report Generated 12 Mar 2014 at 12:44

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Test Results

Instrument Serial Number 010550

Test # 000516 Subject Test

Test Location 1 Department of
Test Date 12 Mar 2014

Test Location 2 Forensic Science
Test Time 11:53
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name BILLETER
Agency DFS Central Lab

Operator's First Name MICHELLE

Operator's Middle Initial M
License Number 26417

Card Serial Number 126417

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 12 Mar 2014 End Time 12:02

Result Time 12:00

Result Date 12 Mar 2014 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 11:54

Data Type BLK

Sample Value 0.000

Sample Time 11:54

Data Type CHK

Sample Value 0.096

Sample Time 11:55

Data Type BLK

Sample Value 0.000

Sample Time 11:57

Data Type SUBJ

Sample Value 0.000

Sample Time 11:58

Data Type BLK

Sample Value 0.000

Sample Time 11:59

Data Type SUBJ

Sample Value 0.000

Sample Time 12:00

Data Type BLK

Sample Value 0.000

Sample Time 12:01

Standard Type Dry Gas Std

Standard Value 0.097

Standard Lot Number AG209402-49

Standard Expiration Date 04/03/2014

Tank Pressure 169

Barometric Pressure 739 mmHg

Blow Sample Number 1 Blow Duration 3.64 sec

Blow Volume 1703 cc End-of-Blow Time 11:58

Blow Sample Number 2 Blow Duration 3.52 sec

Blow Volume 1633 cc End-of-Blow Time 12:00

Tamper Evident Stamp bed606a1

Test Status Code 0

Test Status Success